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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,476	09/30/2003	Kouzi Hayasi	Q77787	1541

7590 04/05/2005

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Washington, DC 20037

EXAMINER

HU, SHOUXIANG

ART UNIT PAPER NUMBER

2811

DATE MAILED: 04/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Response to Rule 312 Communication	Application No.	Applicant(s)	
	10/673,476	HAYASI, KOUZI	
	Examiner	Art Unit	
	Shouxiang Hu	2811	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on 23 March 2005 under 37 CFR 1.312 has been considered, and has been:

a) ☐ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.


c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☒ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

Please see the attached office action.



SHOUXIANG HU
PRIMARY EXAMINER

DETAILED ACTION

Response to Amendment

Applicant's Rule-312 amendment filed on March 23, 2005, is disapproved, because it does not contain any amendment to the to-be published disclosure, although it is to be kept in the wrapper for record.

Response to Arguments

Applicant's arguments filed in the above amendment have been fully considered but they are not persuasive.

As explained in previous telephone interviews between Attorney Amelia Morani and the examiner, what shown in Fig.2 of Aufinger (US 6,69,404) is only a sectional view of a bipolar device under a non-active region (under the interconnection V and the BPAD and SUBPAD, as shown in Fig.1). The "P" type doped substrate naturally has a low resistance, compared with that of a lightly doped region ("P" or "N" type). A lightly doped region is commonly included in a region directly under the active region of the bipolar transistor (see the region "T" in Fig. 1).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shouxiang Hu whose telephone number is 571-272-

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1654. The examiner can normally be reached on Monday through Thursday, 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SH
March 24, 2005



SHOUXIANG HU
PRIMARY EXAMINER